

EUROPEAN PATENT OFFICE

M 6807 HST

Patent Abstracts of Japan

PUBLICATION NUMBER : 63018100
PUBLICATION DATE : 25-01-88

APPLICATION DATE : 08-07-86
APPLICATION NUMBER : 61160321

APPLICANT : NISSHIN STEEL CO LTD;

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INT.CL. : C25D 11/38 C23G 1/08

TITLE : SURFACE TREATMENT OF STAINLESS STEEL

ABSTRACT : PURPOSE: To improve the corrosion resistance of stainless steel at a low cost by immersing the steel in a mixed aqueous soln. contg. chromic acid and sulfuric acid and by cathodically electrolyzing the steel at a low current density in an aqueous soln. prepnd. by adding sulfuric acid or the like to an aqueous chromic acid soln.

CONSTITUTION: Stainless steel is immersed in a mixed aqueous soln. contg. \geq about 100g/l CrO₃ and \geq about 300g/l sulfuric acid at about \geq 50°C for about 2~60min to form a passivated film. The steel is then immersed in an aqueous soln. prepnd. by adding about 1/50~1/200mol/l one or more among sulfuric acid, phosphoric acid, nitric acid and molybdate to an aqueous soln. contg. \geq about 100g/l chromic acid and the steel is cathodically electrolyzed at such a low current density as \leq 5A/dm² for about 3~10min. Thus, the corrosion resistance of the stainless steel is improved without deteriorating the quality.

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